المهام الأدائية

للصف الخامس الابتدائي

مادة: الرياضيات

تعليمات عامة:

- يستغرق العمل علي المهام الأدائية فترة دراسية واحدة.
- يوزع المعلم أوراق المهام علي الطلاب ويوضح لهم المقصود منها، ويختار إحداها.
- يقدم المعلم الدعم اللازم لطلابه في اختيار المهام المناسبة لميولهم، ويشرف على مراحل تنفيذ المهام خلال أدائها.
- يجيب الطلاب عن المطلوب من المهمة في نفس الورقة.
- يتم تصحيح المهمة من ٣٥ درجة تبعًا للجدول التالي:

المرحلة	التخطيط	جدية العمل	المنتج النهائي	الدرجة النهائية
الدرجة	5 درجات	5 درجات	25 درجة	35 درجة

Student's name: ……………………………
Class: ……………………………….

(1)

Fayoum Basin



The Fayoum Basin is located south of Cairo on the western side of the Nile, its area is estimated at about 6,069 square kilometers. There is a group of Herons birds on it. If the weight of one of the herons' birds is 0.50 Kg. the weight of the second bird is 1.35 Kg, and the weight of the third bird is 0.875 Kg.

Using the above information, complete the following:

1- The number 5 represents five thousandths in the number …………………
2- The place value of the number 0 in the number 6,069 is …………………….
3- The smallest decimal fraction in the previous paragraph is ………………….
4- The sum of the weight of the herons mentioned in the previous paragraph is equal to …… Kg.
5- The difference between the weight of the second bird and the weight of the first bird is equal to ……………………………………………………………………………………..……..….Kg.

Student's name: ……………………………
Class: ……………………………….

(2)

Numbers and statistics

You traveled to the Sudan to see the sources of the Nile; they are the Blue Nile, which is 1,450.02 Kilometers long. And the White Nile, which is 3,699.88 Kilometers long.

According to the previous data; Complete:

1- Put the number 1,450.02 in the place value table:

Thousands	Ones			•	Decimals		
O	H	T	O	•	Tenths	Hundredths	Thousandths

2- The expanded form of number 3,699.88 is:

……..

3- The number 3,699.88 to the nearest tenth $\approx$ ……………………

4- The number 1,450.02 divided by 100 = ……………………

5- The difference between the length of the White Nile and the Blue Nile

=……………………………………………………………………………………. Kilometers.

Student's name: ……………………………
Class: ……………………………….

(3)

An Egyptian City

A student found a picture of a tourist city in Egypt; He can know the name of the city by finding the value of the unknown as follows:

(A)	(N)	(W)
$750 \div x = 7.5$	$0.8 \times 0.3 = x$	$8.2 + x = 9$

(S)	(Y)	(K)
x is the greatest common factor (GCF) of the two numbers 8 and 12	$6\frac{1}{2} - x = 5.5$	x is the least common multiple (LCM) of the two numbers 3 and 4

Write the appropriate letter by the value of the unknown:

………….	………….	………….	………….	………….
100	4	0.8	100	0.24

The City's Name is ………………………….

Student's name: ……………………………
Class: ……………………………….

(4)

Abu Simbel Temple

Abu Simbel Temple contains two temples, The Great Temple and The Small Temple. To protect them from flooding, the temples were cut into pieces weighing between 2.72 to18.14 tons and moved. After being moved, they were put back together.

1- Write the weights of the two pieces using the following place value table:

Ones			•	Decimals	
H	T	O	•	Tenths	Hundredths

2- The weight of the small piece using the expanding form:
2.72 = ……………. + ……………… + …………………
3- The difference between the weights of the two pieces =…………………………………………
= ……………………..Tons
4- The sum of the weights of the two pieces =……………………………………………………….
= ……………………..Tons
5- The weight of the greatest piece (18.14 Tons) ≈ ………………. (to the nearest tenths)
6- If a student wants to calculate the weight of 100 pieces each of weight 18.14 Tons, then it will be =…………………………………………………………………………Tons

Student's name: ……………………………
Class: ……………………………….

(5)

<u>Playing with numbers</u>

Use the following cards:

8	2	4

.

To find:

1) Five different 3-digit decimals that include whole number, tenth and hundredth:

   …………. , …………. , …………. , …………. , ………….

2) Write the greatest number and the smallest number of the previous numbers that you formed:

   - The greatest number is: ……………………………
   - The smallest number is: ……………………………

3) When we multiply the numbers 8.24 and 2.48, we get …………………………………

4) 8.24 ÷ 10 = ………..

5) When writing the decimal number 4.82 using the extended form, it will be:

   4.82 = …………….. + ……………. + …………….

Student's name: ……………………………
Class: ……………………………….

(6)

Underground Metro

The length of the first line of underground Metro is 44 kilometers from Helwan station to New- Marg station. It transfers about 60 thousand passengers in each trip in one direction that covered in 56 minutes.

Complete the following:

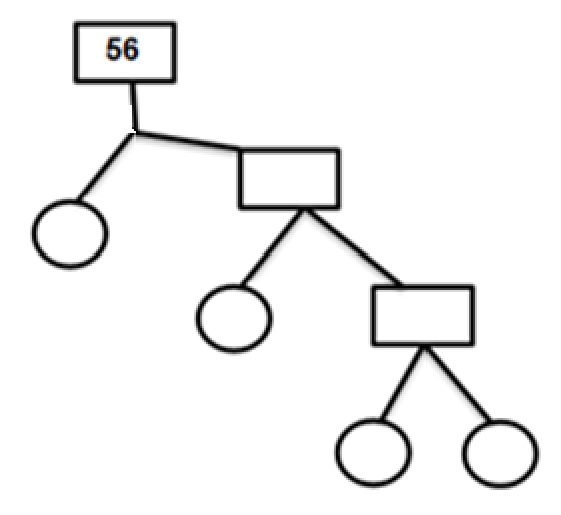
1- The distance covered by the Metro in 142 trips =…………………………………………………..
= …………………kilometer

2- A student wants to calculate the time taken to cover 206 trips using the multiplication operation 206 × 56 as shown in the following area model:

	200	60	0
50	10,000	3,000	0
6	1,200	360	0

The error in the student's answer is typing the expanded form of the number ……………

3- The factor tree of number 56 (Know that ◯ is used for the prime number)

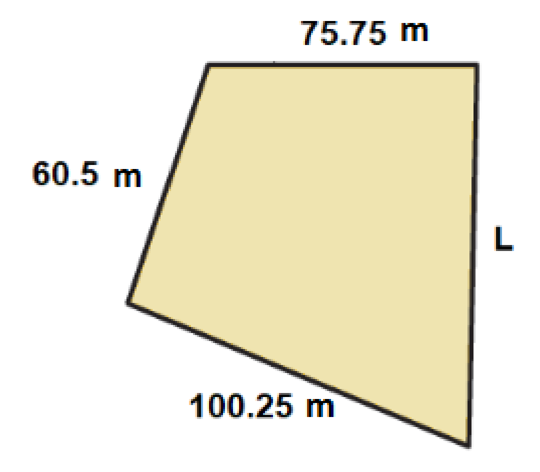


Student's name: ……………………………
Class: ……………………………….

(7)

<u>A piece of land</u>

The following figure represents a piece of land whose perimeter equals 405.275 meters.



Complete:

1) The value of L = ……………………………………………………………………………………………meters.
2) If we need to build a fence around this piece of land, and the price of building one meter is 100 pounds, then the cost of building the fence = ……………………………………………………………………………………………… pounds.
3) If we divide the cost of building the fence into 5 installments equally, then the value of each installment = ……………………………………………………………………………… pounds.

Student's name: ……………………………
Class: ……………………………

(1)

Fayoum Basin



The Fayoum Basin is located south of Cairo on the western side of the Nile, its area is estimated at about 6,069 square kilometers. There is a group of Herons birds on it. If the weight of one of the herons' birds is 0.50 Kg. the weight of the second bird is 1.35 Kg, and the weight of the third bird is 0.875 Kg.

Using the above information, complete the following:

1- The number 5 represents five thousandths in the number 0.875
2- The place value of the number 0 in the number 6,069 is HUNDRED
3- The smallest decimal fraction in the previous paragraph is 0.50
4- The sum of the weight of the herons mentioned in the previous paragraph is equal to 0.875+1.350+0.500=2.725 Kg.
5- The difference between the weight of the second bird and the weight of the first bird is equal to 1.35-0.50=0.85 Kg.

Student's name: ……………………………
Class: ……………………………

(2)

Numbers and statistics

You traveled to the Sudan to see the sources of the Nile; they are the Blue Nile, which is 1,450.02 Kilometers long. And the White Nile, which is 3,699.88 Kilometers long.

According to the previous data; Complete:

1- Put the number 1,450.02 in the place value table:

Thousands	Ones			.	Decimals		
O	H	T	O	.	Tenths	Hundredths	Thousandths
1	4	5	0	.	0	2	

2- The expanded form of number 3,699.88 is:

3000+600+90+9+0.8+0.08

3- The number 3,699.88 to the nearest tenth ≈ 3699.9

4- The number 1,450.02 divided by 100 = 14.5002

5- The difference between the length of the White Nile and the Blue Nile

3699.88-14550.02=2249.86 Kilometers.

Student's name: ....

Class: ....

(3)

An Egyptian City

A student found a picture of a tourist city in Egypt; He can know the name of the city by finding the value of the unknown as follows: 0.24 0.8

100

(A)	(N)	(W)
$750 \div x = 7.5$	$0.8 \times 0.3 = x$	$8.2 + x = 9$

4 12

(S)	(Y)	(K)
x is the greatest common factor (GCF) of the two numbers 8 and 12	$6\frac{1}{2} - x = 5.5$	x is the least common multiple (LCM) of the two numbers 3 and 4

1

Write the appropriate letter by the value of the unknown:

A	S	W	A	N
100	4	0.8	100	0.24

The City's Name is ASWAN

Student's name: ....

Class: ....

(4)

Abu Simbel Temple

Abu Simbel Temple contains two temples, The Great Temple and The Small Temple. To protect them from flooding, the temples were cut into pieces weighing between 2.72 to18.14 tons and moved. After being moved, they were put back together.

1- Write the weights of the two pieces using the following place value table:

Ones			.	Decimals	
H	T	O	.	Tenths	Hundredths
		2	.	7	2
	1	8	.	1	4

2- The weight of the small piece using the expanding form:

2.72 = 2+0.7+0.02

3- The difference between the weights of the two pieces = 18.14-2.72

= 15.42 Tons

4- The sum of the weights of the two pieces = 18.14+2.72

= 20.86 Tons

5- The weight of the greatest piece (18.14 Tons) ≈ 18.1 (to the nearest tenths)

6- If a student wants to calculate the weight of 100 pieces each of weight 18.14 Tons, then it will be = ...Tons

18.14*100=1814

Student's name: ……………………………
Class: ……………………………

(5)

Playing with numbers

Use the following cards:

8	2	4

.

To find:

1) Five different 3-digit decimals that include whole number, tenth and hundredth:
   2.84, 8.24 , 2.48 , 4.28 , 8.42
2) Write the greatest number and the smallest number of the previous numbers that you formed:
   - The greatest number is: 8.42
   - The smallest number is: 2.48
3) When we multiply the numbers 8.24 and 2.48, we get 20.4352
4) 8.24 ÷ 10 = 0.824
5) When writing the decimal number 4.82 using the extended form, it will be:
   4.82 = 4+0.8+0.02

Student's name: ....

Class: ....

(6)

Underground Metro

The length of the first line of underground Metro is 44 kilometers from Helwan station to New- Marg station. It transfers about 60 thousand passengers in each trip in one direction that covered in 56 minutes.

Complete the following:

1- The distance covered by the Metro in 142 trips = 142*44

= 6248 kilometer

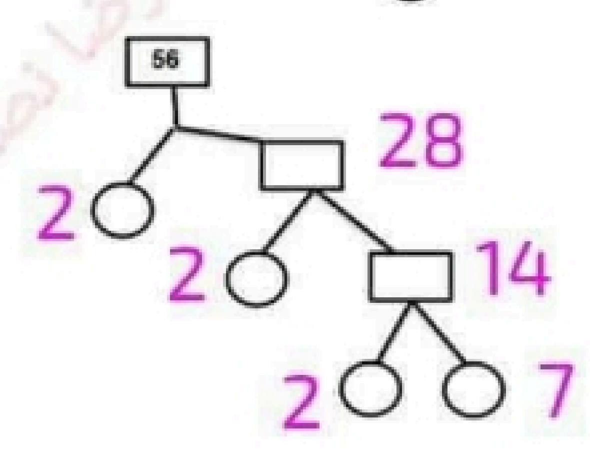
2- A student wants to calculate the time taken to cover 206 trips using the multiplication operation 206 × 56 as shown in the following area model:

	200	60	0
50	10,000	3,000	0
6	1,200	360	0

206=200+6

The error in the student's answer is typing the expanded form of the number ....

3- The factor tree of number 56 (Know that ◯ is used for the prime number)



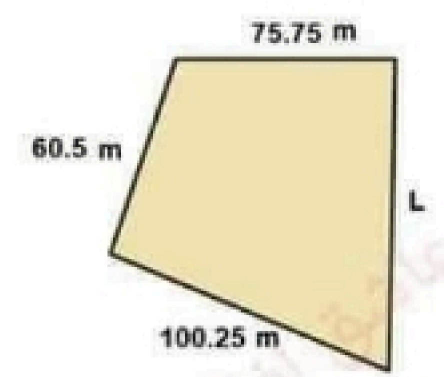
Student's name: ....

Class: ....

(7)

A piece of land

The following figure represents a piece of land whose perimeter equals 405.275 meters.



Complete

405.275-(75.75+60.50+100.50)=168.775

1) The value of L = ...meters.

2) If we need to build a fence around this piece of land, and the price of building one meter is 100 pounds, then the cost of building the fence

= ....405.275*100=40527.5....................... pounds.

3) If we divide the cost of building the fence into 5 installments equally, then the value of each installment = ...405.275÷5=81.055........ pounds.

(1)

(Numbers game)

Student's name : …………………………………………….

Class : ………………….

***Use the following numbers to answer the following :**

(0.08 , 0.21 , 12.42 , 570 , 3)

1) ……………………….. = 10 + 2 + 0.4 + 0.02

2) in 734.28 the digit 8 its value is …………………………

3) 57 x 10 = ………………………

4) 1.23 – 1.02 = …………………………..

5) 8 thousandths - 5 thousandths = ………………………. Thousandths .

(2)

(Mangrove Roots)

Student's Name : ……………………………………………

Class: ………………….

In one garden nada digs a hole to plant a mangrove seeding every 4 days in a second garden she plants a seedling every 6 days . If she plants seedlings in both gardens today .

1) The first seven Multiples of 4 is …………………………………………………………

2) The first seven Multiples of 6 is …………………………………………………………

3) The Common multiples of 4 and 6 is ………………………………………………….

4) The L.C.M. of 4 and 6 is …………………………………………………………..

(Numbers and Statistics)

Student's Name : ……………………………………………

Class : ………………….

Mazen is planning a trip from Cairo to the waterfall region in Wadi El-Rayan . He will travel 147.72 Km .

***Complete :**

1) Put the number 147.72 in the place value chart :

Hundreds	Tens	Ones	.	Tenths	Hundredths

إهداء/صفحة عاشق لغة الضاد.. رضا نصار

2) The Decomposed form for 147.72 is

…………………………………………………………………………………………

3) The Round of 147.72 to the nearest tenths is ……………………………………

4) If Mazen stops in a station after 110.12 Km what is the left distance ?

…………………… - ……………………… = ……………………………

(4)

(Clothing shop)

Student's Name : ……………………………………………

Class : ………………….

Omnia has two strips of cloth. One is 35.6 m wide and the other is 75.12 m wide .

1) If she has 10 pieces of the first strip of cloth, how many meters she need ?

………………………………………………………………………………………..

2) If she has 100 pieces of the second strip of cloth , how many meters she need ?

………………………………………………………………………………………..

3) The estimate of the sum of the two strips of cloth is

………………………………………………………………………………………..

4) The sum of two strips of cloth is

………………………+ ……………………= ……………………………….

(5)

(Giza Pyramids)

Student's Name : ……………………………………………

Class : …………………

While visiting Giza pyramids with the help of the tour guide you recorded the following data:

1) The height of the three pyramids as follows:

(45.057 , 50.100 , 20.001)

***The Ascending order of the three pyramids is:**

……………….. , ………………. , ……………….

2) The height of one pyramid is 50.100 km and the height of the second is 20.001 km find the sum of the height of the two pyramids is

……………………… + ………………………… = ……………………………….

3) The expanded form of 45.05 is ……… + ………… + …………

4) During the trip you ate 5 sandwiches for lunch each sandwich costs 20 L.E. , How much did you pay for the sandwiches ?

……………………………………………………………………………………………..

(Suez Canal)

Student's Name: …………………………………………….

Class: ………………….

At the north edge of the Gulf of Suez lies the Suez Canal. The length of the Suez Canal is 24 km.

1) List the factors of 24

…………………………………………………………………………………………………

2) Find the value of N

N= 2 x 2 x 3 = ………………………

3) Find the G.C.F. of 8 and 10.

4) Factorize 24 to its prime numbers.

إهداء/صفحة عاشق لغة الضاد.. رضا نصار

(1)

(Numbers game)

Student's name : ....

Class : ....

***Use the following numbers to answer the following :**

(0.08 , 0.21 , 12.42 , 570 , 3)

1) 12.42 = 10 + 2 + 0.4 + 0.02

2) in 734.28 the digit 8 its value is 0.08

3) 57 x 10 = 570

4) 1.23 – 1.02 0.21

5) 8 thousandths - 5 thousandths = 3 Thousandths .

(2)

(Mangrove Roots)

Student's Name : ....

Class: ....

In one garden nada digs a hole to plant a mangrove seeding every 4 days in a second garden she plants a seedling every 6 days . If she plants seedlings in both gardens today .

4

1) The first seven Multiples of 4 is ....

-8-12-16-20-24-28

6 -12 -18-

2) The first seven Multiples of 6 is ....

24-30-36-42

3) The Common multiples of 4 and 6 is 12-24-48 ....

12

4) The L.C.M. of 4 and 6 is ....

(3)

(Numbers and Statistics)

Student's Name : ....

Class : ....

Mazen is planning a trip from Cairo to the waterfall region in Wadi El-Rayan . He will travel 147.72 Km .

Complete :

1) Put the number 147.72 in the place value chart :

Hundreds	Tens	Ones	.	Tenths	Hundredths
1	4	7	.	7	2

2) The Decomposed form for 147.72 is

100+40+7+0.7+0.02

3) The Round of 147.72 to the nearest tenths is 147.7

4) If Mazen stops in a station after 110.12 Km what is the left distance ?

147.72 – 110.12 =

37.60

(4)

(Clothing shop)

Student's Name : ………………………………………………

Class : ……………………

Omnia has two strips of cloth. One is 35.6 m wide and the other is 75.12 m wide .

1) If she has 10 pieces of the first strip of cloth, how many meters she need ?

$35.6 \times 10 = 356m$

2) If she has 100 pieces of the second strip of cloth , how many meters she need ?

$75.12 \times 100 = 7512m$

3) The estimate of the sum of the two strips of cloth is

$36 + 75 = 111m$

4) The sum of two strips of cloth is

$35.6 + 75.12 = 110.72$

إهداء/صفحة عاشق لغة الضاد.. رضا نصار

(5)

(Giza Pyramids)

Student's Name : ………………………………………………

Class : ……………………

While visiting Giza pyramids with the help of the tour guide you recorded the following data:

1) The height of the three pyramids as follows:

(45.057 , 50.100 , 20.001)

20.001-45.057-

*The Ascending order of the three pyramids is:

إهداء/صفحة عاشق لغة الضاد.. رضا نصار

……………… , ……………… , ………………

50.100

2) The height of one pyramid is 50.100 km and the height of the second is 20.001 km find the sum of the height of the two pyramids is

50.100+20.001=

……………………… + ……………………… = ………………………………

70.101

3) The expanded form of 45.05 is ……… + ……… + ………

40+5+0.05

4) During the trip you ate 5 sandwiches for lunch each sandwich costs 20 L.E. , How much did you pay for the sandwiches ?

5×20=100 l.E

……………………………………………………………………………………

(Suez Canal)

Student's Name: ....

Class: ....

At the north edge of the Gulf of Suez lies the Suez Canal. The length of the Suez Canal is 24 km.

1) List the factors of 24

1-2-3-4-6-7-12-24

2) Find the value of N

N= 2 x 2 x 3 = 12

3) Find the G.C.F. of 8 and 10.

8=1-2-4-8

10=1-2-5-10

GCF=2

4) Factorize 24 to its prime numbers.

24=2×2×2×3